

Professor Dr. Markus Knauff
Liste der Publikationen

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Aufsätze in Zeitschriften mit Peer-Review

40. Hinterecker, T., **Knauff, M.**, & Johnson-Laird, P.N. (in press). Modality, probability, and mental models. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
39. Ragni, M., Franzmeier, I., Maier, S., & **Knauff, M.** (in press). Uncertain relational reasoning in parietal cortex. *Brain & Cognition*.
38. Gazzo Castaneda, L. E., & **Knauff, M.** (2015). Defeasible reasoning with legal conditionals. *Memory & Cognition*. DOI 10.3758/s13421-015-0574-7.
37. Gazzo Castaneda, L. E., Richter, B., & **Knauff, M.** (2015). Negativity bias in defeasible reasoning. *Thinking & Reasoning*. DOI: 10.1080/13546783.2015.1117988
36. Gazzo Castaneda, L. E., & **Knauff, M.** (2015). When *will* is not the same as *should*: The role of modals in reasoning with legal conditionals. *Quarterly Journal of Experimental Psychology*. DOI:10.1080/17470218.2015.1085067
35. Nejasmic, J., Bucher, L., & **Knauff, M.** (2015). Grounded spatial belief revision. *Acta Psychologica*, 157, 144-154.
34. Nejasmic, J., Bucher, L., & **Knauff, M.** (2015). The construction of spatial mental models - A new view on the continuity effect. *Quarterly Journal of Experimental Psychology*, 68(9), 1794-812.
33. **Knauff, M.**, & Nejasmic, J. (2014). An efficiency comparison of document preparation systems used in academic research and development. *Plos One*, doi: 10.1371/journal.pone.0115069.
32. Jung, N., Wranke, C., Hamburger, K., & **Knauff, M.** (2014). How emotions affect logical reasoning: Evidence from experiments with mood-manipulated participants, spider phobics, and people with exam anxiety. *Frontiers in Psychology*, 5, 1- 12. doi: 10.3389/fpsyg.2014.00570.
31. Ragni, M., & **Knauff, M.** (2013). A theory and a computational model of spatial reasoning with preferred mental models, *Psychological Review*, 120, 561-588.

30. **Knauff, M.** , Bucher, L., Krumnack, A., & Nejasmic, J. (2013). Spatial belief revision. *Journal of Cognitive Psychology*, *25*, 147-156.
29. Wolf, A., G., Rieger, S., & **Knauff, M.** (2012). The effects of source trustworthiness and inference type on human belief revision. *Thinking & Reasoning*, *18*, 417-440.
28. Röser, F., Hamburger, K., Krumnack, A, & **Knauff, M.** (2012). The structural salience of landmarks: Results from an on-line study and a virtual environment experiment. *Journal of Spatial Science*, *57*, 37-50.
27. Hamburger, K., & **Knauff, M.** (2011). Squareland: A virtual environment for investigating cognitive processes in human wayfinding. *PsychNology Journal*, *9*, 137-162.
26. Krumnack, A., Bucher, L., Nejasmic, J., Nebel, B., & **Knauff, M.** (2011). A model for relational reasoning as verbal reasoning. *Cognitive Systems Research*, *11*, 377-392.
25. **Knauff, M.**, & Ragni, M. (2011). Cross-Cultural Preferences in Spatial Reasoning. *Journal of Cognition and Culture*, *11*, 1-21.
24. Röser, F., Hamburger, K., & **Knauff, M.** (2011). The Giessen virtual environment laboratory: human wayfinding and landmark salience. *Cognitive Processing*, *12*, 209-214.
23. **Knauff, M.**, Budeck, C., Wolf, A.G., & Hamburger, K. (2010). The illogicality of stock-brokers: Psychological experiments on the effects of prior knowledge and belief biases on logical reasoning in stock trading. *PLoS ONE* *5*(10): e13483. doi: 10.1371/journal.pone.0013483
22. Fangmeier, T., & **Knauff, M.** (2009). Neural Correlates of Acoustic Reasoning. *Brain Research*, *1249*, 181-190.
21. **Knauff, M.** (2009). A Neuro-Cognitive Theory of Deductive Relational Reasoning with Mental Models and Visual Images. *Spatial Cognition and Computation*, *9*, 109-137.
20. Meilinger, T., & **Knauff, M.** (2008). Ask for directions or use a map: A field experiment on spatial orientation and wayfinding in an urban environment. *Journal of Spatial Science*, *53*, 13-24.
19. Meilinger, T., **Knauff, M.**, & Bühlhoff, H. H. (2008). Working memory in wayfinding—a dual task experiment in a virtual city. *Cognitive Science*, *32*, 755-770.

18. Jahn, G., **Knauff, M.**, & Johnson-Laird, P. N. (2007). Preferred mental models in reasoning about spatial relations. *Memory & Cognition*, *35*, 2075-2087.
17. **Knauff, M.** (2007). How our brains reason logically. *Topoi*, *26*, 19-36.
16. Fangmeier, T., **Knauff, M.**, Ruff, C. C., & Sloutsky, V. (2006). The neural correlates of logical thinking: An event-related fMRI study. *Journal of Cognitive Neuroscience*, *18*, 320-334.
15. Hölscher, C. T., Meilinger, G., Vrachliotis, M., Brösamle, M., & **Knauff, M.** (2006). Up the down staircase: Wayfinding strategies in multi-level buildings. *Journal of Environmental Psychology*, *26*, 284-299.
14. **Knauff, M.**, & May, E. (2006). Mental imagery, reasoning, and blindness. *Quarterly Journal of Experimental Psychology*, *59*, 161-177.
13. Rauh, R., Hagen, C., **Knauff, M.**, Kuß, T., Schlieder, C., & Strube, G. (2005). From preferred to alternative mental models in spatial reasoning. *Spatial Cognition and Computation*, *5*, 239-269.
12. **Knauff, M.**, Strube, G., Jola, C., Rauh, R., & Schlieder, C. (2004). The psychological validity of qualitative spatial reasoning in one dimension. *Spatial Cognition and Computation*, *4*, 167-188.
11. **Knauff, M.**, & Schlieder, C. (2004). Spatial inference: No difference between mental images and models. *Behavioural and Brain Sciences*, *27*, 589-590.
10. Ruff, C. C., **Knauff, M.**, Fangmeier, T., & Spreer, J. (2003). Reasoning and working memory: Common and distinct neuronal processes. *Neuropsychologia*, *41*, 1241-1253.
9. **Knauff, M.**, Fangmeier, T., Ruff, C. C., & Johnson-Laird, P. N. (2003). Reasoning, models, and images: Behavioral measures and cortical activity. *Journal of Cognitive Neuroscience*, *15*, 559-573.
8. **Knauff, M.**, & Johnson-Laird, P. N. (2002). Visual imagery can impede reasoning. *Memory & Cognition*, *30*, 363-371.
7. **Knauff, M.**, Mulack, T., Kassubek, J., Salih, H. R., & Greenlee, M. W. (2002). Spatial imagery in deductive reasoning: A functional MRI study. *Cognitive Brain Research*, *13*, 203-212.
6. **Knauff, M.**, & Strube, G. (2002). Anschauliches Denken und Arbeitsgedächtnis: Kognitive und kortikale Prozesse. *Psychologische Rundschau*, *53*, 49-60.

5. Salih, H. R., Starling, G. C., **Knauff, M.**, Davis, P. M., Pitts, W. J., Aruffo, A., & Kiener, P. A. (2001). Retinoic acid and vitamin E modulate expression and release of CD178 in carcinoma cells: Consequences for induction of apoptosis in CD95 sensitive cells. *Experimental Cell Research*, 270, 248-258.
4. Kassubek, J., Juengling, F. D., Hellwig, B., **Knauff, M.**, Spreer, J., & Lücking, C. H. (2001). Hypermetabolism in the ventrolateral thalamus in unilateral Parkinsonian resting tremor: A positron emission tomography study. *Neuroscience Letters*, 18, 17-20.
3. **Knauff, M.**, Kassubek, J., Mulack, T., & Greenlee, M. W. (2000). Cortical activation evoked by visual mental imagery as measured by functional MRI. *NeuroReport*, 11, 3957-3962.
2. **Knauff, M.** (1999). The cognitive adequacy of Allen's interval calculus for qualitative spatial representation and reasoning. *Spatial Cognition and Computation*, 1, 261-290.
1. Rauh, R., Schlieder, C., & **Knauff, M.** (1997). Präferierte mentale Modelle beim räumlich-relationalen Schließen: Empirie und kognitive Modellierung. *Kognitionswissenschaft*, 6, 21-34.

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3. Ragni, M., & **Knauff, M.** (2008). Deductive Spatial Reasoning: A Computational and Cognitive Perspective. *Künstliche Intelligenz*, 1, 13–17.
2. Barkowsky, T., Bateman, J., Freksa, C., Burgard, W., & **Knauff, M.** (2005). Spatial cognition: Reasoning, action, interaction. *IT – Information Technology*, 47, 163-171.
1. **Knauff, M.**, Schlieder, C., & Freksa, C. (2002). Spatial cognition: From rat-research to multifunctional spatial assistance systems. *Künstliche Intelligenz*, 3, 5-9.

Bücher als Autor oder Herausgeber

6. **Knauff, M.** (2013). *Space to Reason*: Cambridge, MA: MIT Press.
5. **Knauff, M.**, Pauen, M., Sebanz, N., & Wachsmuth, I. (2013). (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
4. Barkowsky, T., **Knauff, M.**, Ligozat, G., & Montello, D. (Eds.), (2007). *Spatial Cognition V: Reasoning, Action, Interaction*. Berlin: Springer.

3. Held, C., **Knauff, M.**, & Vosgerau, G. (Eds.), (2006). *Mental models and the mind. A conception in the intersection of cognitive psychology, neuroscience, and philosophy of mind*. North-Holland: Elsevier.
2. Freksa, C., **Knauff, M.**, Krieg-Brückner, B., Nebel, B., & Barkowsky, T. (Eds.), (2005). *Spatial Cognition IV - Reasoning, Action, Interaction*. Berlin: Springer.
1. **Knauff, M.** (1997). *Räumliches Wissen und Gedächtnis*. Wiesbaden: Deutscher Universitätsverlag.

Beiträge in Lehrbücher, Enzyklopädien und Wörterbüchern

6. Knauff, M. & Knoblich, G., (in press). Logisches Denken. In: J. Müsseler & M. Rieger (Hrsg.). *Lehrbuch Allgemeine Psychologie*. Berlin: Springer Verlag, 3. vollständig überarbeitete und verbesserte Auflage.
5. Bucher, L., Kaller, C., Unterrainer, J., Rahm, B. & **Knauff, M.** (2013). Neuro-nale Grundlagen komplexer Kognition. In: E. Schröger & S. Kölsch (Hrsg.). *Affektive und Kognitive Neurowissenschaft. Enzyklopädie der Psychologie, Themenbereich C, Bd. 5, Kognition* (pp. 363 – 430). Göttingen: Hogrefe.
4. **Knauff, M.** (2013). Mentales Modell. In M. A. Wirtz (Hrsg.). *Dorsch – Lexikon der Psychologie* (16. Aufl., S. 1017). Bern: Verlag Hans Huber.
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2. **Knauff, M.** (2009). Reasoning. In M. D. Binder, N. Hirokawa, & U. Windhorst (Eds.), *Encyclopedia of Neuroscience* (pp. 3377- 3382). Berlin: Springer.
1. **Knauff, M.** (2006). Deduktion und logisches Denken. In J. Funke (Hrsg.), *Enzyklopädie der Psychologie, Themenbereich C, Bd. 8, Denken und Problemlösen* (pp. 167-264). Göttingen: Hogrefe.

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3. **Knauff, M.**, & Wolf, A. G. (2010). Complex Cognition: The Science of Human Reasoning, Problem-solving, and Decision-making (Editorial). *Cognitive Processing*, 11(2), 99-102.
2. Barkowsky, T., Freksa, C., & **Knauff, M.** (2005) Spatial and Visual Components in Mental Reasoning about Space (Editorial). *Spatial Cognition and Computation*, 5(2&3), 115–117.

1. Rauh, R., **Knauff, M.**, Schlieder, C., & Strube, G. (1998). Räumliche mentale Modelle / Spatial mental models (Editorial). *Kognitionswissenschaft*, 7, 1-4.

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33. Gazzo Castaneda, L. E., & **Knauff, M.** (2015). Defeasible reasoning with quantifiers. In D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society* (pp. 770-775). Austin, TX: Cognitive Science Society.
32. Nejasmic, J., Bucher, L., Thorn, P.D., & **Knauff, M.** (2014). Construction and Revision of Spatial Mental Models under High Task Demand. In P. Bello, M. Guarini, M. McShane & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 1066-1071). Austin, TX: Cognitive Science Society.
31. Bucher, L., Nejasmic, J. Bertleff, S. & **Knauff, M.** (2013). Plausibility and visualizability in relational belief revision. In M. **Knauff, M.** Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society (1946-1952)*. Austin, TX: Cognitive Science Society.
30. Cruz de Echeverría Loebell, N. & **Knauff, M.** (2013). Reasoning with differing tasks and response formats. In M. **Knauff, M.** Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2112-2118). Austin, TX: Cognitive Science Society.
29. Gazzo Castaneda, L. E., & **Knauff, M.** (2013). Individual Differences, Imagery and the Visual Impedance Effect. In M. **Knauff, M.** Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2374-2380). Austin, TX: Cognitive Science Society.
28. Mikheeva, M., Bucher, L., Nejasmic, J. & **Knauff, M.** (2013). Spatial reasoning in native speakers of Russian and German. In M. **Knauff, M.** Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 3038-3044). Austin, TX: Cognitive Science Society.
27. Nejasmic, J., Bucher, L., & **Knauff, M.** (2013). Grounded spatial belief revision. In M. **Knauff, M.** Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 1067-1073). Austin, TX: Cognitive Science Society.

26. Röser, F., Krumnack, A., Hamburger, K., **Knauff, M.** (2012). A four factor model of landmark salience – A new approach. In N. Rußwinkel, U. Drewitz & H van Rijn (Eds.), *Proceedings of the 11th International Conference on Cognitive Modeling (ICCM)* (pp. 82-87). Berlin.
25. Bucher, L., Krumnack, A., Nejasmic, J., & **Knauff, M.** (2011). Cognitive processes underlying spatial belief revision. In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 3477-3482). Austin, TX: Cognitive Science Society.
24. Krumnack, A., Bucher, L., Nejasmic, J., & **Knauff, M.** (2011). Efficiency and minimal change in spatial belief revision. In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 2270-2275). Austin, TX: Cognitive Science Society.
23. Nejasmic, J., Krumnack, A., Bucher, L., & **Knauff, M.** (2011). Cognitive processes underlying the continuity effect in spatial reasoning In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 1127-1132). Austin, TX: Cognitive Science Society.
22. Krumnack, A., Bucher, L., Nejasmic, J., & **Knauff, M.** (2010). Spatial reasoning as verbal reasoning. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 1002-1008). Austin, TX: Cognitive Science Society.
20. Wolf, A. G., & **Knauff, M.** (2008). The Strategy Behind Belief Revision: A Matter of Judging Probability or the use of Mental Models. In B. C. Love, K. McRae & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 831-836). Austin, TX: Cognitive Science Society.
19. Ragni, M., Fangmeier, T., Webber, L., & **Knauff, M.** (2007). Preferred mental models: How and why they are so important in human reasoning with spatial relations. In C. Freksa, M. Knauff, B. Krieg-Brückner, B. Nebel, & T. Barkowsky (Eds.), *Spatial Cognition V: Reasoning, Action, Interaction, International Conference Spatial Cognition 2007, Lecture Notes in Computer Science 2007* (pp. 175-190). Berlin, Heidelberg: Springer.
18. Ragni, M., Tseden, B., & **Knauff, M.** (2006). Cross-cultural similarities in topological reasoning. In S. Winter, B. Kuipers, M. Duckham & L. Kulik (Eds.), *Proceedings of 9th International Conference on Spatial Information Theory, CO-SIT 2007*. New York: Springer.

17. Ragni, M., Fangmeier, T., Webber, L., & **Knauff, M.** (2006). Complexity in spatial reasoning. In R. Sun & N. Miyake (Eds.), *Proceedings of the 28th Annual Conference of the Cognitive Science Society* (pp. 1986-1991). Mahwah, NJ: Erlbaum.
16. Böddinghaus, J., Ragni, M., **Knauff, M.**, & Nebel, B. (2006). Simulating spatial reasoning using ACT-R. In: *Proceedings of the 7th International Conference on Cognitive Modeling (ICCM)* (pp. 62-67). Mahwah, NJ: Erlbaum.
15. Meilinger, T., **Knauff, M.**, & Bülthoff, H. (2006). Working memory in way-finding – a dual task experiment in a virtual city. In R. Sun & N. Miyake (Eds.), *Proceedings of the 28th Annual Conference of the Cognitive Science Society* (pp. 585 - 590). Mahwah, NJ: Erlbaum.
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13. Jahn, G., **Knauff, M.**, & Johnson-Laird, P. (2005). Preferred mental models in spatial reasoning. In B. G. Bara, L. Barasalou & M. Bucciarelli (Eds.), *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, (pp. 1036-1041) Mahwah, NJ: Erlbaum.
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11. **Knauff, M.**, Fangmeier, T., Ruff, C. C., & Sloutsky, V. (2005). fMRI evidence for a three-stage model of deductive reasoning. In B. G. Bara, L. Barasalou & M. Bucciarelli (Eds.), *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, (pp. 1160-1165). Mahwah, NJ: Erlbaum.
10. **Knauff, M.**, & May, E. (2004). Visual imagery in deductive reasoning: Results from experiments with sighted, blindfolded, and congenitally totally blind persons. In K. Forbus, D. Genter & T. Regier (Eds.), *Proceedings of the 26th Annual Conference of the Cognitive Science Society* (pp. 708-713). Mahwah, NJ: Erlbaum.
9. **Knauff, M.**, Jola, C., & Strube, G. (2001). Spatial reasoning: No need for visual information. In D. R. Montello (Ed.), *Proceedings on the 6th International Conference on Spatial Information Theory* (pp. 759-765). Berlin: Springer.

8. Rauh, R., Hagen, C., Schlieder, C., Strube, G., & **Knauff, M.** (2000). Searching for alternatives in spatial reasoning: Local transformations and beyond. In L. R. Gleitman & A. K. Joshi (Eds.), *Proceedings of the 22nd Annual Conference of the Cognitive Science Society* (pp. 871-876). Mahwah, NJ: Erlbaum.
7. **Knauff, M.**, & Johnson-Laird, P. N. (2000). Visual and spatial representations in spatial reasoning. In L. R. Gleitman & A. K. Joshi (Eds.), *Proceedings of the 22nd Annual Conference of the Cognitive Science Society* (pp. 759-765). Mahwah, NJ: Erlbaum.
6. **Knauff, M.**, Rauh, R., Schlieder, C., & Strube, G. (1998). Continuity effect and figural bias in spatial relational inference. In M. A. Gernsbacher & S. J. D. v. Lawrence (Eds.), *Proceedings of the 20th Annual Conference of the Cognitive Science Society* (pp. 573-578). Mahwah, NJ: Erlbaum.
5. **Knauff, M.**, Rauh, R., & Renz, J. (1997). A cognitive assessment of topological spatial relations: Results from an empirical investigation. In S. C. Hirtle & A. U. Frank (Eds.), *Proceedings of 5th International Conference on Spatial Information Theory, COSIT 1997* (pp. 193-206). New York: Springer.
4. Strube, G., Enzinger, A., Janetzko, D., & **Knauff, M.** (1995). Knowledge engineering for CBR systems from a cognitive science perspective. In M. Veloso & A. Aamodt (Eds.), *Case-Based Reasoning: Research and Development. Proceedings of the 1st International Conference of Case-Based Reasoning* (pp. 548-558). Berlin: Springer.
3. **Knauff, M.**, Rauh, R., & Schlieder, C. (1995). Preferred mental models in qualitative spatial reasoning: A cognitive assessment of Allen's calculus. In J. F. Lehman & J. D. Moore (Eds.), *Proceedings of the 17th Annual Conference of the Cognitive Science Society* (pp. 200-205). Mahwah, NJ: Erlbaum.
2. Voss, A., Bartsch-Spörl, B., Börner, K., Coulon, C.-H., Durschke, H., Gräther, W., **Knauff, M.**, Linowski, B., Schaaf, J. W., & Tammer, E. C. (1994). Retrieval of similar layouts - about a very hybrid approach in FABEL. In *Proceedings of the Third International Conference on Artificial Intelligence in Design* (pp. 625-640). Dordrecht: Kluwer Academic Publishers.
1. **Knauff, M.**, & Schlieder, C. (1993). Similarity assessment and case representation in case-based design. In *Proceedings of the 1st European Workshop on Case-Based Reasoning* (pp. 37-42). Kaiserslautern: SEKI-Report.

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10. Hamburger, K., Röser, F., Bukow, G. C., & **Knauff, M.** (2012). Der Weg als Ziel: Virtuelle Umgebungen und räumlicher Wissenserwerb. In: G. C. Bukow,

J. Fromme & B. Jörissen (Hrsg.), *Raum, Zeit, Medienbildung: Untersuchungen zu medialen Veränderungen unseres Verhältnisses zu Raum und Zeit* (pp. 173-194). Berlin: Springer.

9. **Knauff, M.**, Bucher, L., & Hamburger, K. (2010). Bilder im Kopf. Wie die Phantasie unser Denken lenkt. In R. Rosenzweig (Hrsg.), *Geistesblitz und Neuronendonner. Intuition, Kreativität und Phantasie* (pp. 91-106). Mentis Verlag: Paderborn.
8. Hölscher, C., Meilinger, T., Vrachliotis, G., Brösamle, M., & **Knauff, M.** (2005). Finding the way inside: Linking architectural design analysis and cognitive processes. In C. Freksa, M. Knauff, B. Krieg-Brückner, B. Nebel & T. Barkowsky (Eds.), *Spatial Cognition IV - Reasoning, action, and interaction* (pp. 1-23). Berlin: Springer.
7. Jahn, G., & **Knauff, M.** (2003). Raum zum Lesen: Die Konstruktion mentaler Modelle beim Verstehen narrativer Texte. In T. Krämer-Badoni & K. Kuhm (Eds.), *Die Gesellschaft und ihr Raum* (pp. 53-72). Leverkusen: Leske & Budrich.
6. Ruff, C. C., **Knauff, M.**, & Fangmeier, T. (2003). A neuro-cognitive account of individual differences in reasoning. In I. Reidvar, M. Greenlee & M. Herrmann (Eds.), *The cognitive neuroscience of individual differences* (pp. 157-176). Oldenburg: Universität Oldenburg.
5. **Knauff, M.**, & Johnson-Laird, P. N. (2003). Reasoning and the visual impedance hypothesis. In C. Freksa, W. Brauer, C. Habel & K. F. Wender (Eds.), *Spatial Cognition III – Routes and navigation, human memory and learning, spatial representation and spatial learning* (pp. 372-384). Berlin: Springer.
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3. **Knauff, M.**, Rauh, R., Schlieder, C., & Strube, G. (1998). Mental models in spatial reasoning. In C. Freksa, C. Habel & K. F. Wender (Eds.), *Spatial Cognition I – An interdisciplinary approach to representing and processing spatial knowledge* (pp. 267-291). Berlin: Springer.
2. **Knauff, M.**, Rauh, R., Schlieder, C., & Strube, G. (1997). Analogizität und Perspektive in räumlichen mentalen Modellen. In C. Umbach, M. Grabski & R. Hörnig (Eds.), *Perspektive in Sprache und Raum* (pp. 35-60). Wiesbaden: Deutscher Universitätsverlag.

1. Strube, G., Janetzko, D., & **Knauff, M.** (1996). Cooperative construction of experts knowledge: The case of knowledge engineering. In P. B. Baltes & U. M. Staudinger (Eds.), *Interactive minds. Life-span perspectives on the social foundation of cognition* (pp. 366-393). Cambridge, MA: Cambridge University Press.

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53. Bucher, L., Nejasmic, J., & **Knauff, M.** (2013). Effects of plausibility and imageability on relational belief revision. In U. Ansorge, E. Kirchler, C. Lamm, & H. Leder (Eds.), *Abstracts of the 55th Conference of Experimental Psychologists* (p. 45). Lengerich: Papst Science Publishers.
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Ausgewählte eingeladene Vorträge

22. **Knauff, M.** (November, 2015). *Space to reason*. Institut für Kognitionswissenschaft. Universität Tübingen.
21. **Knauff, M.** (Oktober, 2015). *Space to reason*. Institut für Kognitionswissenschaft. Universität Osnabrück.
20. **Knauff, M.** (November, 2013). *Uncertain spatial reasoning about environmental hazards*. Invited talk. Workshop "Knowledge, beliefs, representations in understanding climate issues" Paris Consortium Climate-Environment-Society and laboratory Paragraphe, CNRS, Paris.
19. **Knauff, M.** (März, 2013). *Space to Reason*. Invited Talk. Geneva Neuroscience Center. Hôpital Universitaire de Genève.
18. **Knauff, M.** (Februar, 2012). *Space to Reason*. Invited talk. Department of Geography, University of California Santa Barbara.
17. **Knauff, M.** (Oktober, 2010). *Rede des Präsidenten zur Lage des Faches Kognitionswissenschaft*. Vortrag auf der 10. Tagung der Gesellschaft für Kognitionswissenschaft, Potsdam.
16. **Knauff, M.** (Mai, 2010). *Space to Reason*. Invited talk. Department of Psychological and Brain Sciences. University of California Santa Barbara.
15. **Knauff, M.** (Mai, 2010). Kreativität, Fantasie und das Gehirn. Eingeladener Vortrag. Die Welt des Hirns - Das Hirn der Welt. Wissenschaftler und Science-Fiction Autoren im Dialog. Science + Fiction Dialog im Rahmen des Jubiläums 550 Jahre Universität Basel.
14. **Knauff, M.** (Mai, 2010). *Space to Reason*. Invited talk. Cognitive Science Program Colloquium, University of California Santa Barbara.
13. **Knauff, M.** (Oktober, 2009). *Bilder im Kopf: Wie die Phantasie unser Denken lenkt*. Vortrag im Symposium: "Geistesblitz und Neuronendonner". Germanisches Nationalmuseum Nürnberg, Turm der Sinne GmbH.
12. **Knauff, M.** (December, 2009). *How our brains reason spatially*. Invited talk. Psychology Department of University of Cyprus, Nicosia, Cyprus.
11. **Knauff, M.** (December, 2009). *How our brains reason logically*. Invited talk. Psychology Department of the University of La Laguna, Tenerife, Spain.
10. **Knauff, M.** (Juni, 2007). *The Cognitive Science of Human deductive reasoning*. Invited talk. Psychology Department of the University of Granada, Spain.

9. **Knauff, M.** (Juni, 2007). *How our brain reason logically*. Invited Keynote lecture. Annual Meeting of the Netherlands Association for Logic, Groningen.
8. **Knauff, M.** (Juni, 2006). *Visual images can be a nuisance in reasoning*. Invited talk. 13th Parmenides Workshop on the Neural Correlates of Thinking (NCT), Elba, Italy.
7. **Knauff, M.** (Juli, 2006). *How the illogical brain produces logical inferences*. Invited Course at the 13th International Summer School in Cognitive Science, Sofia, Bulgaria.
6. **Knauff, M.** (September, 2006). *Visual images can impede thinking*. Invited talk. 2nd Symposium "Milieus of Creativity" der Klaus Tschira Stiftung, Heidelberg, Villa Bosch, Germany.
5. **Knauff, M.** (März, 2006). *Visual images can be a nuisance in reasoning*. Invited talk. International Meeting on Thinking and Reasoning. Trinity College Dublin, Ireland.
4. **Knauff, M.** (März, 2005). *Stop Using Introspection to Gather Data for the Design of Computational Systems*. Invited talk. Spring Symposium of the American Association for Artificial Intelligence (AAAI): Stanford University, California, USA.
3. **Knauff, M.** (März, 2004). *Experimentelle Raumkognitionsforschung*. Invited talk. Joint meeting of the SFBs "Spatial Cognition" and "Nexus". Evangelische Akademie Tutzing, Germany.
2. **Knauff, M.** (März, 2003). *Spatial Cognition: From Rat-Research to Multifunctional Spatial Assistance Systems*. Invited Evening Lecture. Interdisziplinäres Kolleg IK2003, Günne, Möhnensee, Germany.
1. **Knauff, M.** (März, 2002). *Methods for Researching Spatial Cognition*. Invited talk. Workshop "Person, Space, and Memory - Theoretical Foundations", Universität Heidelberg, Germany.